## **AMENDMENTS TO THE CLAIMS**

This listing of claims replaces all prior versions, and listings, of claims in the application:

## LISTING OF CLAIMS

- 1. (currently amended) A method for amplifying ATP comprising: allowing a fusion protein of that has a polyphosphate kinase and an adenylate kinase in this order from the N-terminal and that has been subjected to a treatment for removing ADP to act on a mixture containing ATP, AMP, and a polyphosphate compound.
  - 2. (canceled)
- 3. (currently amended) A method for detecting ATP comprising:
  allowing a fusion protein of that has a polyphosphate kinase and an adenylate kinase in this order from the N-terminal and that has been subjected to a treatment for removing ADP to act on a mixture of ATP, AMP, and a polyphosphate compound to amplify ATP; and

detecting the amplified ATP.

- 4. (canceled)
- 5. (currently amended) A method for rapidly detecting the presence of a microorganism comprising:
- treating a sample containing a microorganism to prepare a sample containing ATP;
- adding the sample containing ATP to an ATP amplification system to amplify ATP; and

detecting the amplified ATP,

wherein the ATP amplification system comprises AMP, a polyphosphate compound, and a fusion protein of that has a polyphosphate kinase and an adenylate kinase in this order from the N-terminal and that has been subjected to a treatment for removing ADP, the fusion protein not containing ADP.

- 6. (currently amended) A kit for rapidly detecting the presence of a microorganism, comprising an ATP amplification reagent containing AMP, a polyphosphate compound, and a fusion protein of that has a polyphosphate kinase and an adenylate kinase in this order from the N-terminal and that has been subjected to a treatment for removing ADP, the fusion protein not containing ADP; and an ATP detection reagent for detecting ATP.
  - 7. (original) The kit of claim 6, further comprising a cell lysis reagent.
  - 8. (canceled)
- 9. (currently amended) A fusion protein of that has a polyphosphate kinase and an adenylate kinase in this order from the N-terminal and that has been subjected to a treatment for removing ADP.
  - 10. (canceled)